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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2021 2 EXAMINATION...

COURSE TITLE: INTRODUCTION TO ECONOMETRICS I

**COURSE CODE: ECO 355** 

UNITS: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ATTEMPT QUESTION ONE (1) AND ANY OTHER THREE (3)

**QUESTIONS** 

1a Explain the term "Econometrics" (2 marks)

- b. Differentiate between mathematical equation and models. (5 marks)
- c. What are the differences between econometrics and statistics? (5 marks)
- d. Differentiate between applied econometrics and theoretical econometrics (5 marks)
- e. Distinguish between type 1 error and type 2 error. (5 marks)
- f. Explain how the power of a is test determined? (3 marks)
- 2a. List and explain the role of computer in Econometrics Analysis (11 marks)
- 2b. Outline the four (4) steps involve in hypothesis testing. 1 Marks Each[Total = 4 Marks]
- 3a. Differentiate between Econometrics theory and methods (5 Marks)
- 3b List the importance of econometrics in economic analysis? (5 Marks)
- 3c. How will you critique econometrics? (5 Marks)
- 4a. Distinguish between dependent variable and an independent variable. (2.5 marks)
- b. Describe an error term. (2.5 marks)
- c. List and explain the reasons for the existence of error terms. (10 marks)
- 5a Distinguish between "estimate" and an "estimator" (3 marks)
- b. List the two properties of coefficient of determination  $(R^2)$  (2 marks)
- c. Explain the properties of ordinary least square (OLS) estimator. (10 marks)